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LUMBER USED IN THE MANUFACTURE OF WOODEN PRODUCTS.

By J. C. NELLIS, *Forest Examiner.*

The importance of the wood-working industries among the manufacturing industries of the country is indicated by the fact that lumber-working plants, of all classes, consume annually 24½ billion feet of wood. This is about 60 per cent of the annual lumber production of approximately 40 billion feet. The material is mostly lumber, but includes comparatively small quantities of veneer, bolts, and dimension stock.

This report presents statistics showing the average annual consumption of wood by the wood-working industries in the United States. The basic data were secured by a series of State wood-using industry studies. Those for the more important States have been published separately. Although the State studies were begun in 1909 and were not completed until 1913, a period of 12 months was made the basis for the statistics for each State, and the final figures for the whole country here presented are therefore a very good average of the demand of each industry and the demand for each kind of wood.

Lumber usually is remanufactured to a greater or less extent before use, and in this report the product of the sawmill is not considered. However, planing mills operated in connection with sawmills manufacture large quantities of flooring, ceiling, siding, finish and other patterns which really are finished products, and such material accordingly is covered by the statistics.

About 40 per cent of the annual lumber cut is not worked by planing mills or factories into finished products. About one-fifth of this (in normal times) is exported, while the rest is used in general building and rough construction. Though all construction lumber requires cutting to length to make it fit into place, this industry was not considered by the studies, which canvassed only the wood-working factories. All imported woods used by factories are included in the statistics.

The wood-using studies were intended to supplement the annual reports on the consumption of wood for lath, shingles, cooperage, veneer, pulp, distillation, poles, and ties, and these industries therefore are not covered in this report.

In the case of Louisiana, Arkansas, Minnesota, Montana, Idaho, Washington, and Oregon, the basis for compiling the figures for planing-mill products differs from the general plan of including only planing-mill patterns, in that nearly all dressed lumber, surfaced on from one to four sides, is also included in the figures for these States.

Figure 1 shows graphically the comparative amounts used by each important industry in each State.

Figure 2 shows graphically the comparative amounts of each important wood used in each State.

Table 1 gives detailed figures by industries and shows the amount of each kind of wood used by each industry.

The scope of the statistics for the industries with titles that are not entirely descriptive is as follows: Planing-mill products cover standard patterns such as flooring, ceiling, and siding made in large quantities by planing mills in lumber-producing regions, while sash, doors, blinds, and millwork usually are made in millwork plants in the consuming regions. However, considerable quantities of doors and door stock are made in the Pacific Coast States. Boxes and crates cover all kinds of packing boxes and crates made of lumber or veneer, and also fruit and vegetable packages and baskets. Car construction covers wooden construction in all types of railroad and electric cars, as well as in locomotives and mine cars. Furniture includes household and office furniture, except chairs, kitchen furniture, and fixtures in business buildings. Vehicles take in horse vehicles, automobiles, bicycles, pushcarts, and wheelbarrows. Wood-ware and novelties embrace a thousand or more articles, such as kitchen utensils, wooden dishes, butter and cheese packages, measures, pails, wooden novelties of all kinds, ladders, and supplies for dairymen, poulterers, and apiarists. Fixtures are such as show cases, counters, bars, and lodge and church furnishings. Shade and map rollers include also curtain and rug poles and venetian blinds. Machine construction means wooden construction in machinery of all kinds. Shoe lasts, pegs, and shanks are boot and shoe findings. Four-sevenths of the wood used for professional and scientific instruments went for pencils, the rest for artists', photographers', and draftsmen's instruments, rules, and scientific apparatus. Billiard and pool tables, as well as gymnasium goods and all outdoor sporting goods, come under sporting and athletic goods. Mine equipment includes ventilating apparatus, brattices, breaker equipment, slope rollers, and sprags. Dowels are small rods used in fastening together furniture, fixtures, and doors. Under playground equipment come lawn swings and porch furniture.

The kinds of wood are classified according to rather broad commercial practice. The classification is practically the same as that used in the lumber census bulletins; figures on the several species of each family or group are combined under the common name.

Oak, maple, spruce, hemlock, birch, hickory, basswood, ash, elm, cedar,¹ willow, locust, and eucalyptus each covers its different species.

Yellow pine includes the southern yellow pines, North Carolina pines, and minor eastern yellow pines. Western yellow pine is listed separately; trade names for it are western pine, western soft pine, and California white pine.

White pine covers both northern and western (Idaho) white pine as well as Norway pine and jack pine.

Cottonwood takes in the cottonwoods, aspen (or popple), and balm of Gilead.

Tupelo includes cotton gum (called tupelo commercially), black gum, and water gum.

Larch includes western larch and eastern tamarack.

Mahogany covers all woods sold in this country as such.

White fir includes the botanical white fir as well as grand and silver (*amabilis*) fir; the other minor firs, noble, red, and alpine fir, usually sold as white fir, are listed separately.

All other kinds of wood listed are single species except that cypress, sycamore, cherry, dogwood, magnolia (cucumber, of the magnolia family, is shown separately), and buckeye are family names, but only one species of each is used commercially. Redwood sometimes includes lumber from the bigtree. The red-gum tree yields both commercial red and sap gum and both are covered herein by red gum.

¹ Spanish cedar is listed separately.

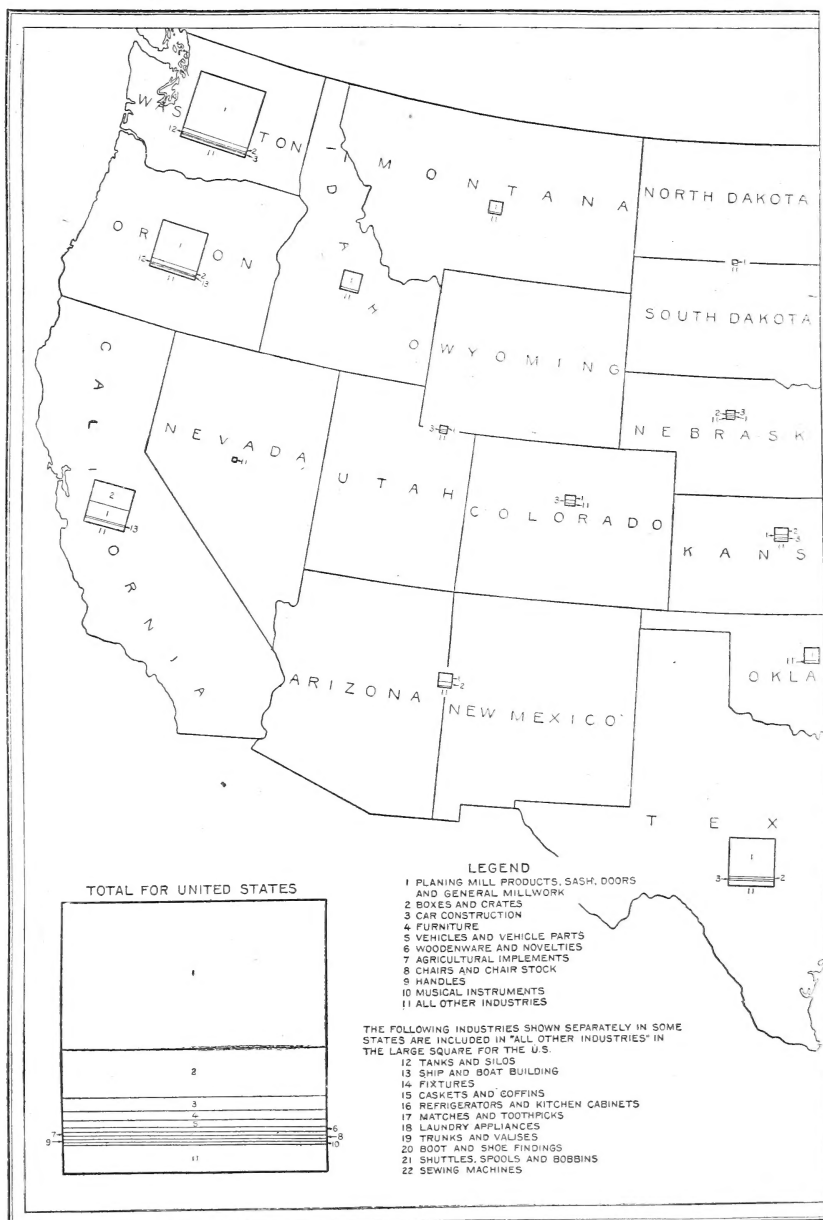
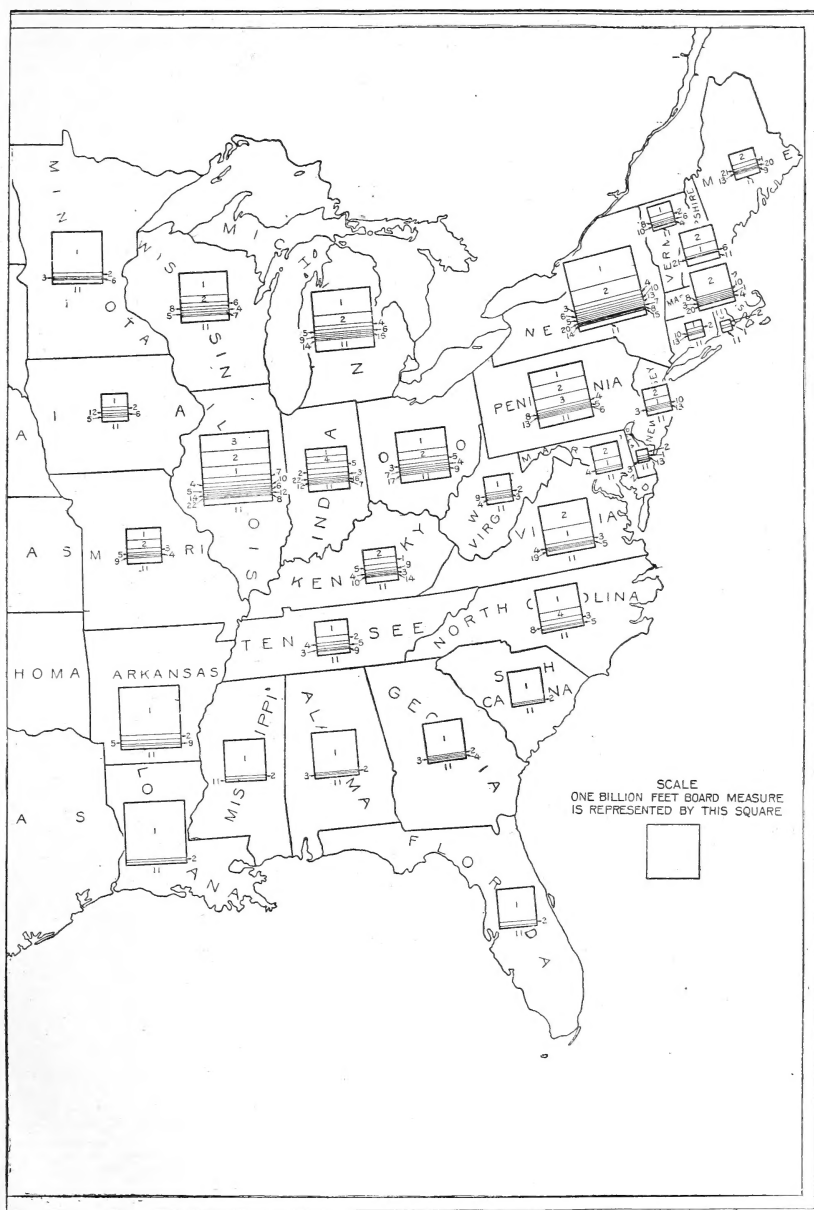


FIG. 1.—The annual consumption of wood by the



NOVEMBER 1913

wood manufacturing industries (by industries).

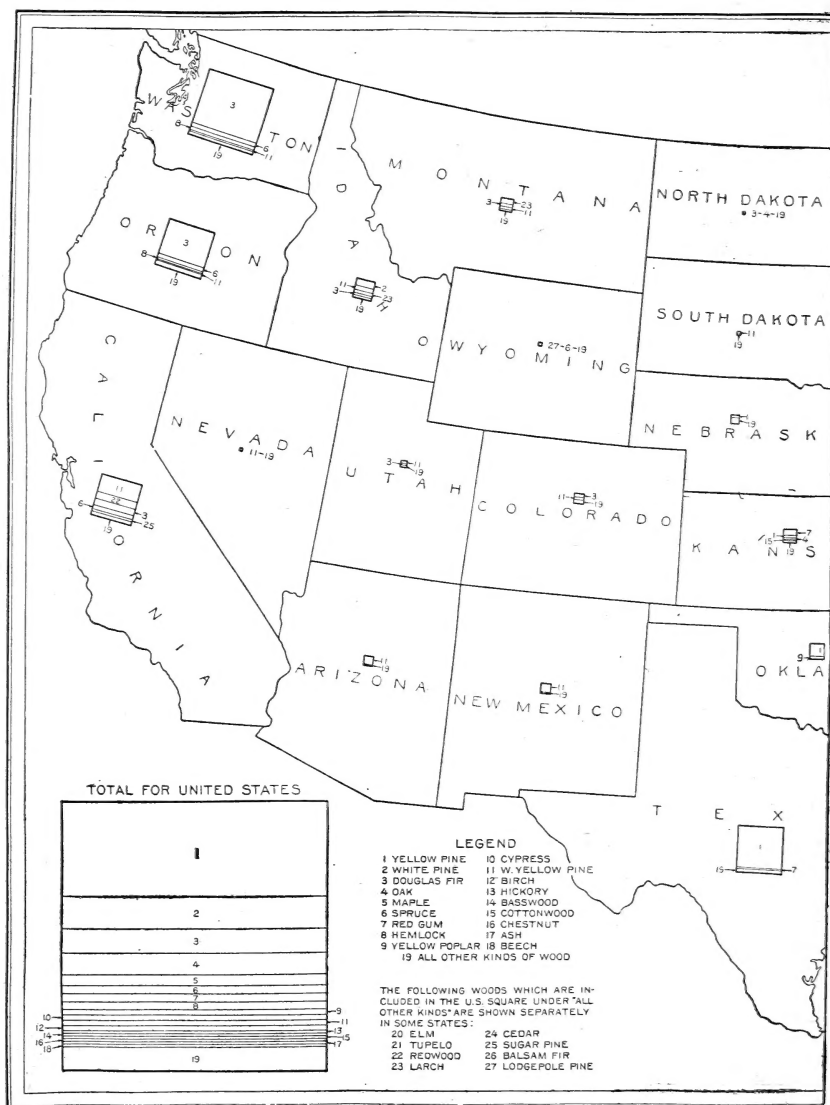
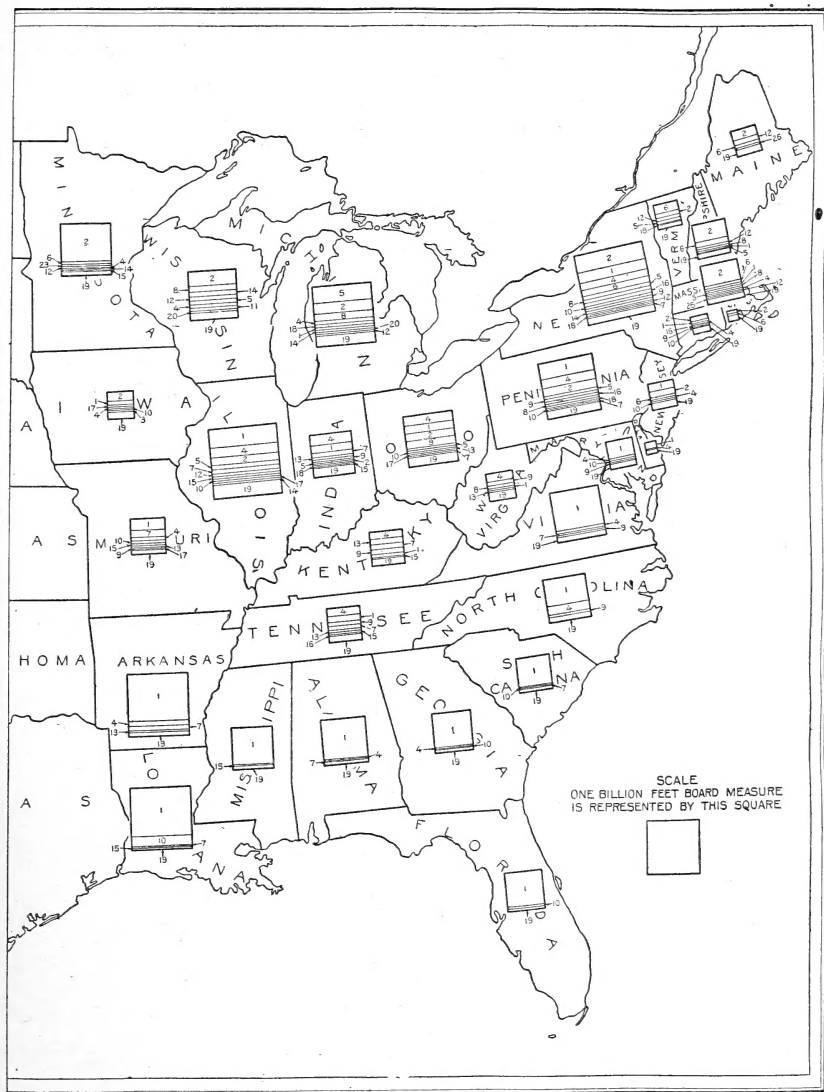


FIG. 2.—The annual consumption of wood by the



NOVEMBER 1915

wood manufacturing industries (by kinds of wood).

TABLE 1.—Quantity of each kind of wood used annually

| Industry. | Kind of wood. | | | |
|--|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | Total. | Yellow pine. | White pine. | Douglas fir. |
| All industries..... | <i>Feet b. m.</i> 24,576,556,564 | <i>Feet b. m.</i> 8,610,685,624 | <i>Feet b. m.</i> 3,112,698,017 | <i>Feet b. m.</i> 2,273,788,484 |
| Planing-mill products, sash, doors, blinds, and general millwork..... | 13,428,862,066 | 6,447,780,805 | 1,543,345,756 | 1,991,177,352 |
| Boxes and crates..... | 4,550,016,430 | 1,044,993,123 | 1,131,969,940 | 7,349,840 |
| Car construction..... | 1,262,090,371 | 678,114,162 | 75,382,166 | 86,544,784 |
| Furniture..... | 944,677,807 | 18,926,400 | 9,332,808 | 11,387,790 |
| Vehicles and vehicle parts..... | 739,144,483 | 31,205,478 | 1,675,277 | 930,610 |
| Woodenware, novelties, and dairymen's, poulterers', and apiarists' supplies..... | 405,286,436 | 18,566,406 | 47,744,797 | 2,005,175 |
| Agricultural implements..... | 321,239,336 | 98,453,396 | 8,243,440 | 2,537,250 |
| Chairs and chair stock..... | 289,790,560 | 20,000 | 815,068 | 65,000 |
| Handles..... | 280,234,571 | 67,000 | 25,500 | 247,200 |
| Musical instruments..... | 260,195,026 | 2,107,994 | 9,394,820 | 480,400 |
| Tanks and silos..... | 225,619,686 | 41,291,700 | 17,007,600 | 89,705,322 |
| Ship and boat building..... | 199,598,228 | 65,698,652 | 14,256,006 | 44,342,081 |
| Fixtures..... | 187,132,848 | 11,612,365 | 4,864,150 | 5,512,310 |
| Caskets and coffins..... | 153,394,557 | 11,970,650 | 33,170,942 | 6,000 |
| Refrigerators and kitchen cabinets..... | 137,616,266 | 7,872,931 | 8,613,186 | 543,600 |
| Matches and toothpicks..... | 85,442,111 | | 73,059,611 | |
| Laundry appliances..... | 79,502,040 | 1,397,000 | 3,026,870 | 184,500 |
| Shade and map rollers..... | 79,291,575 | 1,150,000 | 61,450,000 | 3,000,000 |
| Paving material and conduits..... | 76,067,000 | 65,092,000 | 1,850,000 | 3,500,000 |
| Trunks and valises..... | 74,667,997 | 15,277,990 | 7,299,500 | |
| Machine construction..... | 69,459,430 | 22,461,088 | 5,405,405 | 985,100 |
| Boot and shoe findings..... | 66,240,200 | | | |
| Picture frames and molding..... | 65,477,783 | 5,498,000 | 5,812,300 | 6,000 |
| Shuttles, spools, and bobbins..... | 65,148,190 | | 130,000 | |
| Tobacco boxes..... | 64,127,476 | | 199,425 | |
| Sewing machines..... | 59,946,527 | 65,000 | | |
| Pumps and wood pipe..... | 55,826,938 | 373,230 | 12,524,000 | 21,351,480 |
| Pulleys and conveyors..... | 35,862,900 | 250,000 | 285,000 | 129,000 |
| Professional and scientific instruments..... | 35,070,928 | 46,600 | 601,670 | 30,000 |
| Toys..... | 28,926,552 | | 2,367,131 | |
| Gates and fencing..... | 27,450,540 | 6,765,000 | 3,883,500 | 805,000 |
| Sporting and athletic goods..... | 25,191,907 | 943,000 | 806,300 | 85,000 |
| Patterns and flasks..... | 24,299,403 | 1,951,447 | 17,854,635 | 54,090 |
| Bungs and faucets..... | 21,112,342 | | 287,000 | |
| Plumbers' woodwork..... | 20,313,450 | 262,250 | 786,500 | |
| Electrical machinery and apparatus..... | 18,188,910 | 1,264,900 | 3,022,700 | 138,000 |
| Mine equipment..... | 16,987,697 | 1,263,000 | 239,000 | |
| Brushes..... | 12,878,986 | | 75,000 | |
| Dowels..... | 11,980,500 | | 25,000 | |
| Elevators..... | 10,018,680 | 3,622,868 | 1,692,450 | 415,200 |
| Saddles and harness..... | 9,218,000 | | 10,000 | 130,500 |
| Playground equipment..... | 9,064,812 | 1,448,012 | 42,000 | 1,000 |
| Butchers' blocks and skewers..... | 8,197,050 | | 200,000 | |
| Clocks..... | 7,894,249 | 926,571 | 476,064 | |
| Signs and supplies..... | 6,888,366 | 428,856 | 3,266,950 | 36,000 |
| Printing material..... | 5,324,794 | 337,000 | 11,550 | |
| Weighing apparatus..... | 5,021,550 | 1,180,750 | 168,000 | 102,900 |
| Whips, canes, and umbrella sticks..... | 4,946,880 | | | |
| Brooms and carpet sweepers..... | 2,277,334 | | | |
| Firearms..... | 2,093,901 | | | |
| Artificial limbs..... | 687,080 | | | |
| Tobacco pipes..... | 489,515 | | | |
| Airplanes..... | 74,300 | | | |

in the manufacture of wooden products.

Kind of wood—Continued.

| Oak. | Maple. | Spruce. | Red gum. | Hemlock. | Yellow poplar. | Cypress. | Western yellow pine. | Birch. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|-------------------|
| <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> |
| 1,983,584,491 | 919,420,274 | 805,050,195 | 797,343,658 | 708,752,769 | 680,936,848 | 668,353,342 | 563,816,810 | 481,293,680 |
| 501,367,772 | 317,634,231 | 350,528,295 | 121,366,583 | 442,050,165 | 236,047,697 | 508,728,575 | 264,920,778 | 133,867,989 |
| 56,362,111 | 96,831,648 | 335,935,643 | 402,121,640 | 203,526,091 | 165,416,737 | 38,962,895 | 288,291,927 | 90,787,900 |
| 305,276,814 | 5,789,289 | 8,799,060 | 1,035,640 | 12,455,379 | 32,439,064 | 1,676,400 | 4,242,500 | 5,830,429 |
| 431,683,289 | 87,571,456 | 2,270,500 | 102,237,867 | 7,053,446 | 53,374,580 | 3,477,800 | 1,806,985 | 54,677,450 |
| 212,918,361 | 35,863,267 | 835,650 | 26,650,314 | 448,678 | 48,665,960 | 1,320,951 | 182,300 | 14,227,125 |
| 7,716,860 | 38,255,880 | 28,591,148 | 8,358,296 | 2,136,522 | 7,278,889 | 8,693,450 | 262,500 | 29,547,890 |
| 69,346,130 | 48,319,210 | 2,623,500 | 11,976,000 | 1,257,400 | 12,412,300 | 2,682,000 | 219,000 | 4,704,000 |
| 135,269,118 | 47,264,747 | 10,000 | 8,790,280 | 216,000 | 1,140,000 | ----- | 30,000 | 30,114,332 |
| 12,458,472 | 41,238,446 | 18,000 | 6,654,300 | 500,000 | 211,900 | 122,000 | ----- | 9,908,250 |
| 20,638,480 | 45,482,775 | 29,144,150 | 9,243,825 | 615,600 | 40,371,925 | 70,000 | ----- | 12,349,055 |
| 5,042,401 | 200,000 | 10,233,500 | 1,085,000 | 1,777,000 | 240,000 | 35,408,575 | 127,000 | ----- |
| 32,382,311 | 1,014,167 | 7,783,980 | 164,000 | 4,745,775 | 448,077 | 5,014,741 | 518,500 | 1,055,167 |
| 62,681,744 | 20,701,026 | 2,016,816 | 5,491,170 | 473,300 | 14,574,881 | 3,364,550 | 961,720 | 15,255,129 |
| 7,544,255 | 110,000 | 1,700,000 | 7,010,520 | 1,985,000 | 9,640,860 | 19,157,633 | 543,500 | 191,000 |
| 31,351,521 | 6,375,242 | 5,555,690 | 13,483,400 | 6,934,872 | 5,985,729 | 1,700,500 | 50,000 | 3,628,106 |
| ----- | 1,200,000 | 750,000 | ----- | ----- | 500,000 | ----- | ----- | 3,575,000 |
| 427,500 | 14,219,000 | 2,301,000 | 3,395,000 | 1,300,000 | 1,026,200 | 15,321,300 | 5,000 | 3,876,500 |
| 294,000 | 879,925 | 7,063,000 | 2,065,200 | ----- | 326,000 | 20,000 | ----- | 93,000 |
| 4,500 | 5,047,000 | 1,759,850 | 1,783,005 | 7,000,000 | 2,988,500 | 1,275,000 | 361,000 | 71,500 |
| 8,295,864 | 3,597,981 | 729,775 | 206,500 | 3,268,191 | 2,208,577 | 15,868,405 | 2,000 | 470,406 |
| 3,000 | 54,050,000 | ----- | ----- | ----- | 190,000 | ----- | ----- | 7,483,000 |
| 16,043,423 | 309,150 | 325,000 | 7,675,040 | ----- | 2,158,814 | 451,000 | ----- | 3,133,700 |
| 39,000 | 13,531,450 | ----- | 270,000 | ----- | 701,000 | ----- | ----- | 33,192,000 |
| 403,200 | 96,450 | ----- | 6,898,270 | ----- | 7,358,919 | 1,559,027 | ----- | ----- |
| 19,106,250 | 324,148 | ----- | 20,774,280 | ----- | 8,039,244 | ----- | ----- | 206,000 |
| 565,800 | 1,706,000 | ----- | 3,089,628 | ----- | 1,974,000 | 2,055,000 | ----- | 55,500 |
| 7,343,500 | 2,436,000 | 177,000 | 19,677,500 | 200,000 | 400,000 | 3,000 | 5,000 | 745,000 |
| 372,100 | 4,425,167 | 16,000 | 75,500 | ----- | 1,001,400 | 23,000 | 8,000 | 1,062,050 |
| 1,444,057 | 3,964,400 | 1,300 | 523,000 | 241,000 | 882,000 | 150,000 | ----- | 3,123,950 |
| 2,640,700 | 140,000 | 1,071,000 | ----- | 5,152,000 | 5,000 | 681,040 | 33,000 | 300,000 |
| 2,497,559 | 4,913,815 | 191,800 | 150,000 | 186,600 | 970,200 | 166,000 | ----- | 983,233 |
| 182,200 | 118,150 | 478,238 | 1,000 | 580,600 | 344,330 | 74,000 | 136,500 | 7,000 |
| 250,600 | 854,900 | 110,000 | 325,000 | ----- | 18,010,000 | ----- | 1,200 | 305,000 |
| 14,031,200 | 388,300 | ----- | 416,000 | ----- | 819,000 | 25,000 | ----- | 2,404,500 |
| 4,936,000 | 1,190,650 | 1,980,700 | 202,500 | 257,600 | 561,700 | 201,000 | ----- | 804,200 |
| 4,826,472 | 949,200 | ----- | 250,100 | 2,328,750 | 86,500 | ----- | ----- | 336,075 |
| 90,900 | 1,911,897 | ----- | 284,800 | ----- | 282,265 | 30,000 | 7,000 | 1,913,000 |
| 77,000 | 1,354,500 | ----- | 15,000 | ----- | ----- | ----- | 90,000 | 8,149,000 |
| 956,200 | 1,562,262 | 73,000 | ----- | 1,003,800 | 334,600 | 10,000 | 10,000 | 28,000 |
| 1,248,000 | 1,450,500 | ----- | 1,078,500 | ----- | 22,200 | ----- | 1,400 | 10,000 |
| 2,576,800 | 854,000 | 100,000 | 30,000 | ----- | 85,000 | ----- | ----- | 147,500 |
| 12,000 | 2,145,650 | ----- | 1,750,600 | ----- | ----- | ----- | ----- | 240,000 |
| 2,637,027 | 80,000 | ----- | 37,000 | ----- | 1,085,000 | ----- | ----- | 52,044 |
| 12,000 | 101,500 | 10,000 | 200,000 | 1,060,000 | 100,600 | 30,000 | 1,000,000 | ----- |
| 272,100 | 703,786 | ----- | 15,000 | ----- | 150,000 | 30,000 | ----- | 242,200 |
| 158,600 | 451,000 | 1,820,000 | ----- | 5,000 | 73,000 | 500 | ----- | 675,000 |
| 20,000 | 1,101,100 | ----- | 20,000 | ----- | ----- | ----- | ----- | 580,000 |
| 405,000 | 564,500 | ----- | 110,000 | ----- | ----- | ----- | ----- | 530,500 |
| ----- | ----- | ----- | 345,000 | ----- | ----- | ----- | ----- | ----- |
| ----- | 147,100 | ----- | 12,000 | ----- | ----- | ----- | ----- | 353,000 |
| 3,500 | ----- | 46,600 | ----- | ----- | 4,200 | ----- | ----- | 2,000 |

TABLE 1.—Quantity of each kind of wood used annually

| Industry. | Kind of wood. | | | |
|---|-------------------|-------------------|-------------------|-------------------|
| | Hickory. | Basswood. | Cottonwood. | Chestnut. |
| | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> |
| All industries..... | 389,604,531 | 369,640,782 | 322,642,796 | 298,849,801 |
| Planing-mill products, sash, doors, blinds, and general millwork..... | 2,489,288 | 60,557,122 | 21,428,700 | 82,267,497 |
| Boxes and crates..... | 767,920 | 86,979,611 | 210,519,509 | 36,216,700 |
| Car construction..... | 1,226,706 | 5,148,521 | 3,037,468 | 825,074 |
| Furniture..... | 843,600 | 33,146,276 | 5,158,309 | 44,734,180 |
| Vehicles and vehicle parts..... | 239,491,910 | 6,418,308 | 33,278,658 | 972,809 |
| Woodenware, novelties, and dairymen's, poultry-ers', and apiarists' supplies..... | 1,567,011 | 58,563,923 | 13,315,296 | 20,853,100 |
| Agricultural implements..... | 9,860,470 | 7,861,750 | 15,143,000 | 884,000 |
| Chairs and chair stock..... | 1,192,200 | 1,758,338 | 126,000 | 5,240,630 |
| Handles..... | 120,294,466 | 2,285,885 | 27,000 | 10,000 |
| Musical instruments..... | 225 | 10,968,180 | 2,351,000 | 38,125,141 |
| Tanks and silos..... | | 5,000 | | 15,000 |
| Ship and boat building..... | 110,195 | 959,000 | 14,025 | 751,295 |
| Fixtures..... | 26,000 | 7,114,755 | 1,553,351 | 8,039,595 |
| Caskets and coffins..... | | 2,728,038 | 555,000 | 46,586,629 |
| Refrigerators and kitchen cabinets..... | 150,000 | 5,221,634 | 4,420,322 | 1,508,753 |
| Matches and toothpicks..... | | 5,575,000 | 375,000 | |
| Laundry appliances..... | | 4,980,670 | 7,991,500 | 20,500 |
| Shade and map rollers..... | 2,500 | 702,500 | | 460,000 |
| Paving material and conduits..... | | | | |
| Trunks and valises..... | 173,700 | 21,164,406 | 1,973,325 | 562,500 |
| Machine construction..... | 1,113,135 | 1,155,403 | 293,000 | 272,375 |
| Boot and shoe findings..... | 25,000 | 3,599,200 | 5,000 | |
| Picture frames and molding..... | 10,000 | 20,340,700 | 1,000 | 1,314,650 |
| Shuttles, spools, and bobbins..... | 872,000 | 1,947,000 | 175,000 | |
| Tobacco boxes..... | | 4,206,250 | 6,750 | |
| Sewing machines..... | | 310,000 | 326,912 | 540,000 |
| Pumps and wood pipe..... | 925,000 | | | |
| Pulleys and conveyors..... | | 625,000 | 42,000 | 120,000 |
| Professional and scientific instruments..... | 971,332 | 2,619,070 | 170 | 367,000 |
| Toys..... | | 8,739,242 | 257,000 | 966,268 |
| Gates and fencing..... | 600 | 50,000 | | 5,121,500 |
| Sporting and athletic goods..... | 4,944,000 | 318,600 | 60,000 | 222,000 |
| Patterns and flasks..... | | 123,500 | | 175,200 |
| Bungs and faucets..... | 6,000 | | | |
| Plumbers' woodwork..... | | 245,000 | | 114,000 |
| Electrical machinery and apparatus..... | | 299,000 | 7,500 | 112,700 |
| Mine equipment..... | 816,363 | | | 854,405 |
| Brushes..... | 125,000 | 758,300 | 50,000 | 31,500 |
| Dowels..... | 30,500 | 167,500 | 5,000 | |
| Elevators..... | 100 | 10,000 | | 19,000 |
| Saddles and harness..... | 12,800 | 52,000 | 46,000 | |
| Playground equipment..... | 100,000 | | | |
| Butchers' blocks and skewers..... | 1,310,000 | | | |
| Clocks..... | | 1,415,000 | | 290,000 |
| Signs and supplies..... | | 100,000 | 100,000 | |
| Printing material..... | 20,500 | 352,600 | | 255,800 |
| Weighing apparatus..... | | 35,000 | | |
| Whips, canes, and umbrella sticks..... | 84,000 | 32,500 | | |
| Brooms and carpet sweepers..... | | | | |
| Firearms..... | | | | |
| Artificial limbs..... | 40,010 | 1,000 | | |
| Tobacco pipes..... | | | | |
| Airplanes..... | 2,000 | | | |

TABLE 1.—Quantity of each kind of wood used annually

| Industry. | Kind of wood. | | | |
|--|-------------------|-------------------|-------------------|-------------------|
| | Mahogany. | Spanish cedar. | Sycamore. | Black walnut. |
| | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> | <i>Feet b. m.</i> |
| All industries..... | 50,575,999 | 30,323,441 | 26,052,812 | 23,988,346 |
| Planing-mill products, sash, doors, blinds, and general millwork..... | 7,336,932 | 8,123 | 1,723,550 | 4,606,420 |
| Boxes and crates..... | 13,000 | | 16,451,693 | 163,250 |
| Car construction..... | 5,986,198 | | | 256,181 |
| Furniture..... | 15,637,125 | 2,500 | 1,474,882 | 1,689,957 |
| Vehicles and vehicle parts..... | 516,399 | 500 | 62,600 | 390,450 |
| Woodenware, novelties, and dairymen's, poultryers', and apiarists' supplies..... | 72,305 | 10,000 | 607,500 | 38,547 |
| Agricultural implements..... | 500 | | 290,000 | 8,000 |
| Chairs and chair stock..... | 2,455,700 | | 971,344 | 263,200 |
| Handles..... | 29,000 | | 156,000 | 29,050 |
| Musical instruments..... | 8,610,355 | 7,750 | 304,600 | 4,991,808 |
| Tanks and silos..... | | | | |
| Ship and boat building..... | 1,190,192 | 27,300 | 38,000 | 3,750 |
| Fixtures..... | 5,527,819 | | 713,000 | 660,635 |
| Caskets and coffins..... | 1,528,294 | 300 | | 474,000 |
| Refrigerators and kitchen cabinets..... | 6,800 | | 340,000 | |
| Matches and toothpicks..... | | | | |
| Laundry appliances..... | | | 2,000 | 20,000 |
| Shade and map rollers..... | 5,000 | | 202,000 | 2,000 |
| Paving material and conduits..... | | | | |
| Trunks and valises..... | 500 | | 5,000 | |
| Machine construction..... | 5,885 | | | 10,817 |
| Boot and shoe findings..... | | | | |
| Picture frames and molding..... | 171,200 | | 30,000 | 125,004 |
| Shuttles, spools, and bobbins..... | | | | |
| Tobacco boxes..... | 161,200 | 30,203,068 | 430,000 | |
| Sewing machines..... | 91,878 | | 150,000 | 7,796,815 |
| Pumps and wood pipe..... | | | | |
| Pulleys and conveyors..... | | | | |
| Professional and scientific instruments..... | 84,862 | | | 71,200 |
| Toys..... | | | 91,343 | |
| Gates and fencing..... | | | | |
| Sporting and athletic goods..... | 100,000 | 31,500 | 30,500 | 41,000 |
| Patterns and flasks..... | 271,659 | 31,400 | | 21,500 |
| Bungs and faucets..... | | | | 56,000 |
| Plumbers' woodwork..... | 127,000 | | | 10,300 |
| Electrical machinery and apparatus..... | 301,700 | | | 452,600 |
| Mine equipment..... | | | | |
| Brushes..... | 35,300 | 1,000 | 74,300 | 26,700 |
| Dowels..... | | | | |
| Elevators..... | 1,000 | | | |
| Saddles and harness..... | | | 34,500 | |
| Playground equipment..... | | | | |
| Butchers' blocks and skewers..... | | | 1,600,000 | |
| Clocks..... | 204,196 | | | 58,527 |
| Signs and supplies..... | | | | |
| Printing material..... | 48,500 | | | |
| Weighing apparatus..... | 4,000 | | | |
| Whips, canes, and umbrella sticks..... | 15,000 | | | 20,000 |
| Brooms and carpet sweepers..... | 30,500 | | 270,000 | 500 |
| Firearms..... | | | | 1,700,135 |
| Artificial limbs..... | | | | |
| Tobacco pipes..... | | | | |
| Airplanes..... | 6,000 | | | |

in the manufacture of wooden products—Continued.

Kind of wood—Continued.

| Cherry. | White fir. | Willow. | Dogwood. | Noble fir. | Magnolia. | Buckeye. | Persimmon. | Cucumber. |
|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <i>Feet b. m.</i> 12,047,210 | <i>Feet b. m.</i> 11,338,580 | <i>Feet b. m.</i> 10,664,770 | <i>Feet b. m.</i> 7,518,177 | <i>Feet b. m.</i> 6,653,500 | <i>Feet b. m.</i> 6,156,500 | <i>Feet b. m.</i> 5,486,047 | <i>Feet b. m.</i> 3,571,760 | <i>Feet b. m.</i> 2,660,700 |
| 1,674,235 | 8,162,250 | 266,000 | 6,000 | 6,653,500 | 116,900 | 694,400 | ..... | 1,415,800 |
| 170,500 | 3,142,080 | 10,004,600 | ..... | ..... | 5,449,000 | 3,174,028 | ..... | 524,000 |
| 1,965,570 | | 40,000 | ..... | ..... | 477,100 | 415,000 | 35,000 | 16,000 |
| 622,530 | | | | | 9,500 | 63,419 | ..... | 3,800 |
| 39,650 | 3,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 62,350 | 31,250 | 128,000 | 34 | ..... | ..... | 83,700 | ..... | 650,000 |
| 300 | | | | | | | | 1,100 |
| 56,000 | | | | | | | | |
| 617,500 | | 19,000 | 190,230 | ..... | ..... | ..... | 7,000 | ..... |
| 334,180 | | | | | | 6,000 | ..... | ..... |
| 500 | | | | | | | | |
| 184,976 | | 1,000 | ..... | ..... | ..... | ..... | ..... | ..... |
| 2,231,750 | | 150,000 | ..... | ..... | 27,000 | 10,000 | ..... | ..... |
| 33,000 | | | | | | 207,500 | ..... | 20,000 |
| 7,500 | | | | | | | | |
| 2,000 | | | | | | 125,000 | ..... | ..... |
| 2,000 | | | | | | 415,000 | ..... | ..... |
| 60,500 | | | | | | | | |
| 25,000 | | | | | | | 413,000 | ..... |
| 10,000 | | | | | | 214,000 | ..... | 20,000 |
| 5,000 | | | 7,060,425 | ..... | 75,000 | ..... | 2,909,760 | ..... |
| | | | | | | | | |
| 732,750 | | | 31,200 | ..... | ..... | ..... | ..... | 10,000 |
| 2,000 | | | | | | | | |
| 600 | | | 6,000 | ..... | ..... | ..... | 206,000 | ..... |
| 165,594 | | | | | | 3,000 | ..... | ..... |
| 92,400 | | | | | | | | |
| 27,800 | | | 147,288 | ..... | ..... | ..... | ..... | ..... |
| 488,900 | | | 9,000 | ..... | 2,000 | ..... | 1,000 | ..... |
| 10,000 | | | 1,000 | ..... | ..... | ..... | ..... | ..... |
| 15,000 | | | 67,000 | ..... | ..... | ..... | ..... | ..... |
| 300,000 | | | | | | 75,000 | ..... | ..... |
| 2,089,625 | | | | | | | | |
| 7,500 | | | | | | | | |
| 10,000 | | 56,170 | ..... | ..... | ..... | ..... | ..... | ..... |

TABLE 1.—Quantity of each kind of wood used annually

| Industry. | Kind of wood. | | | |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | Butternut. | Red alder. | Lodgepole pine. | Red fir. |
| All industries..... | <i>Feet b. m.</i> 2,310,793 | <i>Feet b. m.</i> 2,248,700 | <i>Feet b. m.</i> 1,979,500 | <i>Feet b. m.</i> 1,854,830 |
| Planing-mill products, sash, doors, blinds, and general millwork..... | 231,700 | 436,000 | 969,500 | 524,000 |
| Boxes and crates..... | 578,000 | | | 1,328,330 |
| Car construction..... | 1,300 | | 1,000,000 | |
| Furniture..... | 593,500 | 792,500 | 1,000 | 2,500 |
| Vehicles and vehicle parts..... | 11,500 | | 8,000 | |
| Woodenware, novelties, and dairymen's, poultryers', and apiarists' supplies..... | 159,000 | 20,000 | | |
| Agricultural implements..... | 10,000 | | | |
| Chairs and chair stock..... | 20,546 | 625,000 | | |
| Handles..... | 2,000 | 361,700 | | |
| Musical instruments..... | 98,100 | | | |
| Tanks and silos..... | | | | |
| Ship and boat building..... | 78,237 | | | |
| Fixtures..... | 393,600 | | | |
| Caskets and coffins..... | 16,000 | | 1,000 | |
| Refrigerators and kitchen cabinets..... | | | | |
| Matches and toothpicks..... | | | | |
| Laundry appliances..... | | | | |
| Shade and map rollers..... | 5,000 | | | |
| Paving material and conduits..... | | | | |
| Trunks and valises..... | | | | |
| Machine construction..... | 5,000 | | | |
| Boot and shoe findings..... | | | | |
| Picture frames and molding..... | | | | |
| Shuttles, spools, and bobbins..... | | | | |
| Tobacco boxes..... | | | | |
| Sewing machines..... | | | | |
| Pumps and wood pipe..... | | | | |
| Pulleys and conveyors..... | 10,000 | 5,500 | | |
| Professional and scientific instruments..... | 30,000 | | | |
| Toys..... | 10,000 | | | |
| Gates and fencing..... | | | | |
| Sporting and athletic goods..... | | | | |
| Patterns and flasks..... | 42,710 | | | |
| Bungs and faucets..... | 14,600 | | | |
| Plumbers' woodwork..... | | | | |
| Electrical machinery and apparatus..... | | | | |
| Mine equipment..... | | | | |
| Brushes..... | | | | |
| Dowels..... | | | | |
| Elevators..... | | | | |
| Saddles and harness..... | | 8,000 | | |
| Playground equipment..... | | | | |
| Butchers' blocks and skewers..... | | | | |
| Clocks..... | | | | |
| Signs and supplies..... | | | | |
| Printing material..... | | | | |
| Weighing apparatus..... | | | | |
| Whips, canes, and umbrella sticks..... | | | | |
| Brooms and carpet sweepers..... | | | | |
| Firearms..... | | | | |
| Artificial limbs..... | | | | |
| Tobacco pipes..... | | | | |
| Airplanes..... | | | | |

TABLE 1.—Quantity of each kind of wood used annually

| Industry. | Kind of wood. | | | | |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | Ebony. | Osage orange. | Rose-wood. | Prima vera. | Sassafras. |
| All industries..... | <i>Feet b. m.</i> 528,812 | <i>Feet b. m.</i> 520,076 | <i>Feet b. m.</i> 471,734 | <i>Feet b. m.</i> 380,568 | <i>Feet b. m.</i> 360,268 |
| Planing-mill products, sash, doors, blinds, and general millwork..... | 50,600 | ..... | 6,100 | 121,973 | 336,000 |
| Boxes and crates..... | ..... | 30,000 | 37,000 | 25,350 | ..... |
| Car construction..... | ..... | 1,000 | 15,280 | 67,500 | 12,000 |
| Furniture..... | 5,450 | 439,026 | 1,100 | ..... | ..... |
| Vehicles and vehicle parts..... | ..... | ..... | ..... | ..... | ..... |
| Woodenware, novelties, and dairymen's, poulterers', and apiarists' supplies..... | 1,045 | 50,000 | 3,613 | ..... | 1,500 |
| Agricultural implements..... | ..... | ..... | ..... | ..... | ..... |
| Chairs and chair stock..... | ..... | ..... | ..... | ..... | ..... |
| Handles..... | 4,664 | ..... | 15,456 | ..... | ..... |
| Musical instruments..... | 60,373 | ..... | 49,645 | 4,300 | ..... |
| Tanks and silos..... | ..... | ..... | ..... | ..... | ..... |
| Ship and boat building..... | ..... | 50 | 1,600 | 31,750 | 50 |
| Fixtures..... | 1,800 | ..... | 52,925 | 129,595 | 10,000 |
| Caskets and coffins..... | ..... | ..... | ..... | ..... | 718 |
| Refrigerators and kitchen cabinets..... | ..... | ..... | ..... | ..... | ..... |
| Matches and toothpicks..... | ..... | ..... | ..... | ..... | ..... |
| Laundry appliances..... | ..... | ..... | ..... | ..... | ..... |
| Shade and map rollers..... | ..... | ..... | 1,000 | 100 | ..... |
| Paving material and conduits..... | ..... | ..... | ..... | ..... | ..... |
| Trunks and valises..... | ..... | ..... | ..... | ..... | ..... |
| Machine construction..... | ..... | ..... | ..... | ..... | ..... |
| Boot and shoe findings..... | ..... | ..... | ..... | ..... | ..... |
| Picture frames and molding..... | 1,330 | ..... | 2,420 | ..... | ..... |
| Shuttles, spools, and bobbins..... | ..... | ..... | 100 | ..... | ..... |
| Tobacco boxes..... | ..... | ..... | ..... | ..... | ..... |
| Sewing machines..... | ..... | ..... | ..... | ..... | ..... |
| Pumps and wood pipe..... | ..... | ..... | ..... | ..... | ..... |
| Pulleys and conveyors..... | ..... | ..... | ..... | ..... | ..... |
| Professional and scientific instruments..... | 500 | ..... | 219,353 | ..... | ..... |
| Toys..... | ..... | ..... | ..... | ..... | ..... |
| Gates and fencing..... | ..... | ..... | ..... | ..... | ..... |
| Sporting and athletic goods..... | 189,000 | ..... | 24,400 | ..... | ..... |
| Patterns and flasks..... | ..... | ..... | ..... | ..... | ..... |
| Bungs and faucets..... | ..... | ..... | 10,642 | ..... | ..... |
| Plumbers' woodwork..... | ..... | ..... | 1,000 | ..... | ..... |
| Electrical machinery and apparatus..... | ..... | ..... | 2,260 | ..... | ..... |
| Mine equipment..... | ..... | ..... | ..... | ..... | ..... |
| Brushes..... | 10,100 | ..... | 12,050 | ..... | ..... |
| Dowels..... | ..... | ..... | ..... | ..... | ..... |
| Elevators..... | ..... | ..... | ..... | ..... | ..... |
| Saddles and harness..... | ..... | ..... | ..... | ..... | ..... |
| Playground equipment..... | ..... | ..... | ..... | ..... | ..... |
| Butchers' blocks and skewers..... | ..... | ..... | ..... | ..... | ..... |
| Clocks..... | ..... | ..... | 290 | ..... | ..... |
| Signs and supplies..... | ..... | ..... | ..... | ..... | ..... |
| Printing material..... | ..... | ..... | ..... | ..... | ..... |
| Weighing apparatus..... | ..... | ..... | ..... | ..... | ..... |
| Whips, canes, and umbrella sticks..... | 194,150 | ..... | ..... | ..... | ..... |
| Brooms and carpet sweepers..... | | | 5,500 | | |
| Firearms..... | | | | | |
| Artificial limbs..... | | | 10,000 | | |
| Tobacco pipes..... | 9,800 | | | | |
| Airplanes..... | | | | | |

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